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Term:

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Display: Documents in Display Format: Starting with Number

Generate: ☐ Hit List ☒ Hit Count ☐ Image

Search

Clear

Help

Logout

Interrupt

Main Menu

Show S Numbers

Edit S Numbers

Preferences

Search History

Today's Date: 4/11/2001

<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	('6007994' '5545535' '5164301' '5079144' 'JP404293497A' 'JP402046280A' 'JP362138185A' 'US005798221A')[ABPN1,NRPN,PN,TBAN,WKU]	14	<u>L10</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	18 and @ay<2000	45	<u>L9</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	fluorescen\$3 with ((bacter\$4 or microb\$4) near3(id or identification or determination))	49	<u>L8</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	fluorescen\$3 same ((bacter\$4 or microb\$4) near3(id or identification or determination))	107	<u>L7</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	fluoresen\$3 same ((bacter\$4 or microb\$4) near3(id or identification))	0	<u>L6</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	fluoresen\$3 with ((bacter\$4 or microb\$4) near3(id or identification))	0	<u>L5</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	fluoresen\$3 with (bacter\$4 microb\$4 near3(id or identification))	0	<u>L4</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	fluores\$ and (microb\$ adj(id or identification))	52	<u>L3</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	fluores\$ and (microb\$ adj(id or identification))	52	<u>L2</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	fluores\$ and (microb\$ adj(id or identification))	52	<u>L1</u>



Generate Collection

L7: Entry 33 of 45

File: DWPI

Nov 6, 1997

DERWENT-ACC-NO: 1997-551036
 DERWENT-WEEK: 199751
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TITLE: Device for identification of microorganisms, fungi and minute life forms - using indicator beads with indicator molecules bound to surface which undergo distinctive colour change in presence of specific organisms or their metabolic products

PATENT-ASSIGNEE:

ASSIGNEE

SENDROWSKI P

CODE

SENDI

PRIORITY-DATA: 1996DE-1017338 (April 30, 1996)

PATENT-FAMILY:

PUB-NO

DE 19617338 A1

PUB-DATE

November 6, 1997

LANGUAGE

N/A

PAGES

007

MAIN-IPC

C12Q001/04

APPLICATION-DATA:

PUB-NO

DE19617338A1

APPL-DATE

April 30, 1996

APPL-NO

1996DE-1017338

DESCRIPTOR

N/A

INT-CL (IPC): C12Q 1/04; C12Q 1/06; C12Q 1/44; G01N 21/77

ABSTRACTED-PUB-NO: DE19617338A

BASIC-ABSTRACT:

Device for identification of microorganisms, fungi and minute life forms, uses mechanically and chemically stable indicator beads having indicator molecules durably bonded to the surface which undergo a distinctive change in colour or fluorescence after contact with microorganisms or fungi or their metabolic products or metabolic intermediate products which serves to identify the organism.

Preferably:

- (i) the bond between the indicator and the substrate bead is permanent,
- (ii) the bond between the indicator and the bead is a covalent bond, an ionic bond or an adhesive bond,
- (iii) contact of the indicator with the substances to be identified can be detected by a change in the spectral properties of the indicator molecule
- (iv) the beads themselves are composed of chemically and mechanically inert material,
- (v) the beads are capable of forming one or other of the above bonds,
- (vi) the diameter of the beads is 5-1500 nm,
- (vii) a single bead carries at least 1 indicator molecule and
- (viii) the surface of a bead is durably bonded with a fluorescein compound, especially fluorescein acid derivatives such as fluorescein diacetate compounds, to allow identification of bacterial lipases by a change in fluorescence.

USE - The device is especially used for identification of bacteria which cause life-threatening illnesses.

ADVANTAGE - The system offers rapid and accurate identification of bacteria and other microorganisms and is quicker and easier to operate than the agar plate method used previously while exposing laboratory personnel to less risk of infection.

Unlike previous methods, the results can be determined instrumentally, thus allowing the possibility of automatic or semi-automatic operation.

CHOSEN-DRAWING: Dwg.0/4

TITLE-TERMS: DEVICE IDENTIFY MICROORGANISM FUNGUS MINUTE LIFE FORM INDICATE BEAD
INDICATE MOLECULAR BOUND SURFACE DISTINCT COLOUR CHANGE PRESENCE SPECIFIC ORGANISM
METABOLISM PRODUCT

DERWENT-CLASS: B04 D16 S03

CPI-CODES: B04-F01; B04-L05A; B06-A02; B11-C07B1; B11-C07B3; B11-C09; B12-K04A4;
D05-H04; D05-H05;

EPI-CODES: S03-E04E;

CHEMICAL-CODES:

Chemical Indexing M1 *01*

Fragmentation Code

M423 M750 M903 N102 Q233 V500 V540 V550 V560 V570

Chemical Indexing M2 *02*

Fragmentation Code

C108 D011 D022 D029 D210 G011 G100 H4 H402 H442

H8 J0 J011 J1 J131 K0 L7 L730 M1 M113

M280 M320 M412 M511 M520 M531 M540 M781 M903 M904

M910 N102 P831 Q233 Q505

Specific Compounds

01594D 01594U

Registry Numbers

1594U

Chemical Indexing M2 *03*

Fragmentation Code

C108 D011 D022 D029 D210 G011 G100 J0 J013 J1

J131 J2 J242 K0 L7 L730 M1 M113 M210 M211

M262 M282 M320 M412 M511 M520 M531 M540 M781 M903

M904 N102 P831 Q233 Q505

Specific Compounds

10697D 10697U

Chemical Indexing M6 *04*

Fragmentation Code

M903 P831 Q233 R514 R515 R521 R614 R623 R625 R635

UNLINKED-DERWENT-REGISTRY-NUMBERS: 1594U

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1997-175954

Non-CPI Secondary Accession Numbers: N1997-459104